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| EXAMINER | DOCUMENT NUMBER | DATE | | NAME | CLASS | SUBCLASS | FILING IF APPRO | | |
| W | 4,675,285 | 06/23/87 | Clark, et al. | | 435/6 | _ | | | |
| 17 | 5,030,576 | 07/09/91 | Dull, et al. | | 435/6 | 9 | | | |
| | 5,217,880 | 6/8/93 | Mitta, et al. | · · · · · · · · · · · · · · · · · · · | 435 | 69.1 | 3/23/9 | 2 | |
| V | 5,312,733 | 5/17/94 | MacLeod | | 435 | 69.1 | 4/11/9 | 1 | |
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| | OTHER DOC | UMENTS (| Including Auth | or, Title, Date, Pertinen | Pages, l | Etc.) | | | |
| 1.4 | Kwon, B. and W | eissman, S | S., "cDNA se | quences of two indu | | | ', Proc. | Natl. | |
| -14 | Acad. Sci.USA, 8 | | | | al T Ca | Il Mediator | Genec' | , | |
| N I | | Kwon, B. et al., "Expression Characteristics of Two Potential T Cell Mediator Genes", Cellular Immunology, 121:414-422, 1989. | | | | | | | |
| | Kwon, B. et al., "Isolation and initial characterization of multiple species of T-lymphocyte subset cDNA clones," <i>Proc. Natl. Acad. Sci. USA</i> , 84: 2896-2900, May 1987. | | | | | | | | |
| | | | | | | | | | |
| | | Pollok, K. et al., "Inducible T Cell Antigen 4-1BB", The Journal of Immunology, 150: 771-781, February 1, 1993. | | | | | | | |
| | Mallet, S. and Barclay, A.N., "A new superfamily of cell surface proteins related to the | | | | | | | | |
| | | | | logy Today, 12:220- | | | | · · · | |
| | Schwartz et al., "cDNA Sequence Tissue Distribution and Regulation of Expression of a New Member of the Human TNF-NGF Receptor Family", Arthritis Rheum. 35 (9 Suppl.), | | | | | | | | |
| | | Abstract D63, page S224, 1992. | | | | | | | |
| | | Schwartz et al., "Identification of a New Member of the Human Nerve Growth Factor/Tumor Necrosis Factor Receptor Family," J. Immunology 150: 298A, Abstract No. | | | | | | | |
| | Factor/Tumor N 1705, 1993. | ecrosis Fac | ctor Receptor | r Family," <i>J. Immuni</i> | ology I. | э <i>0</i> : 298А, А | ADSTRACT | , INO. | |
| | Chalupny, N. et al., "T-cell activation molecule 4-1BB binds to extracellular matrix | | | | | | | | |
| | | | | 9:10360-64, Novem | | | - Ch! | | |
| 1/1 | Mutant Fibrobla | | | and: A Cell Surface October 5, 1990 | Molecu | ne Aitered | in Steel | | |
| V | | | | DATE CONSIDERED | · | | | | |
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| INFOR | RMATION DISCLOSURE CITATION | Raymond G. Goodwin, et al. | | | | | | | |
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| | (Supplemental Sheet) | September 10, 1998 | 1643 /640 | | | | | | |
| | OTHER DOCUMENTS (Including Au | | | | | | | | |
| w | Aruffo, A. and Seed, B., "Molecular clo expression system", <i>Proc. Natl. Acad. S</i> | oning of a CD28 cDNA by a cci. USA 84: 8573-8577, Dec | cember 1987 | | | | | | |
| | Capon, D., et al., "Designing CD4 immunoadhesins for AIDS therapy", Nature 337: 525-531, 9 February 1989 | | | | | | | | |
| | Steele, R.E., "Factor hunting made easier", TIBS 16:125-126, April 1991 | | | | | | | | |
| | Armitage, R., et al., "Molecular and biological characterization of a murine ligand for CD40", Nature 357: 80-82 (1992) | | | | | | | | |
| | | ssion of a soluble form of g | Il antigen gp39, a member of the TNF gene family, ion of a soluble form of gp39 with B cell co- | | | | | | |
| | Ohtsuka, E., et al., "An Alternative Approach to Deoxyoligonucleotides as Hybridization Probes by Insertion of Neoxyinosine at Ambiguous Codon Positions," <i>Journal of Biol. Chemistry</i> 260: (5) 2605-2608, 1985 | | | | | | | | |
| V | Frohman, M., et al., "Rapid production Amplification using a single gene-specifusA, 85:8998-9002, 1998. | | | | | | | | |
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